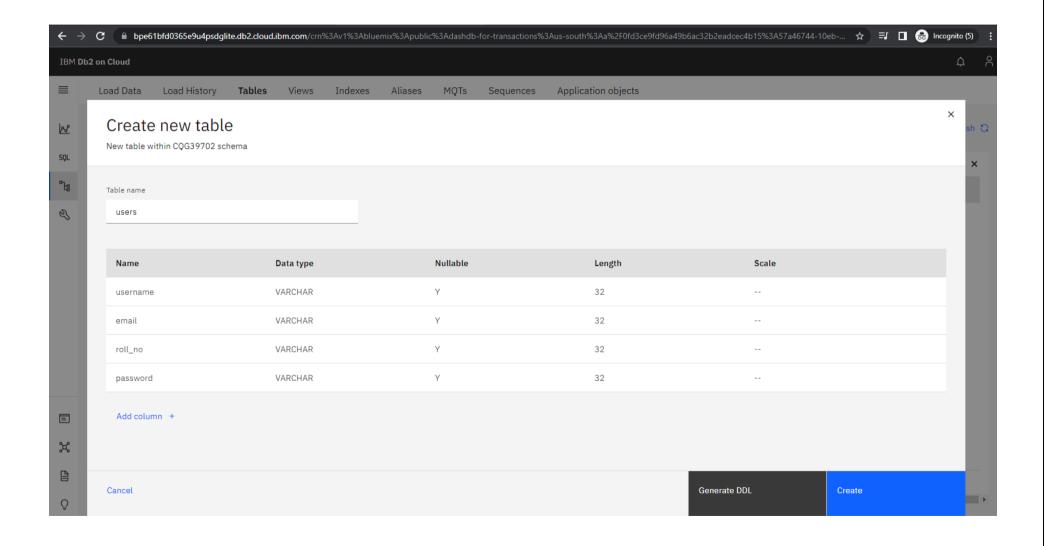
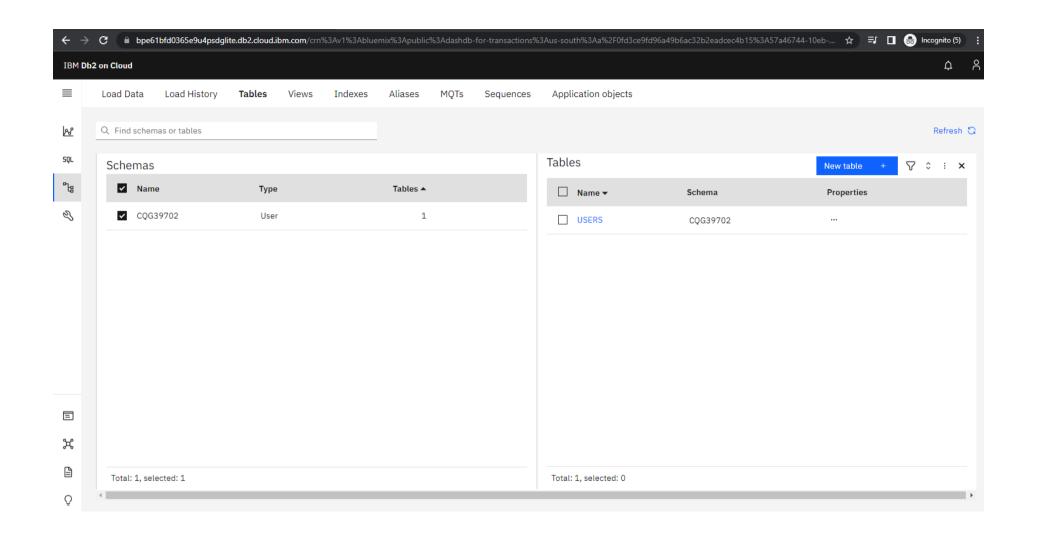
Assignment – 2

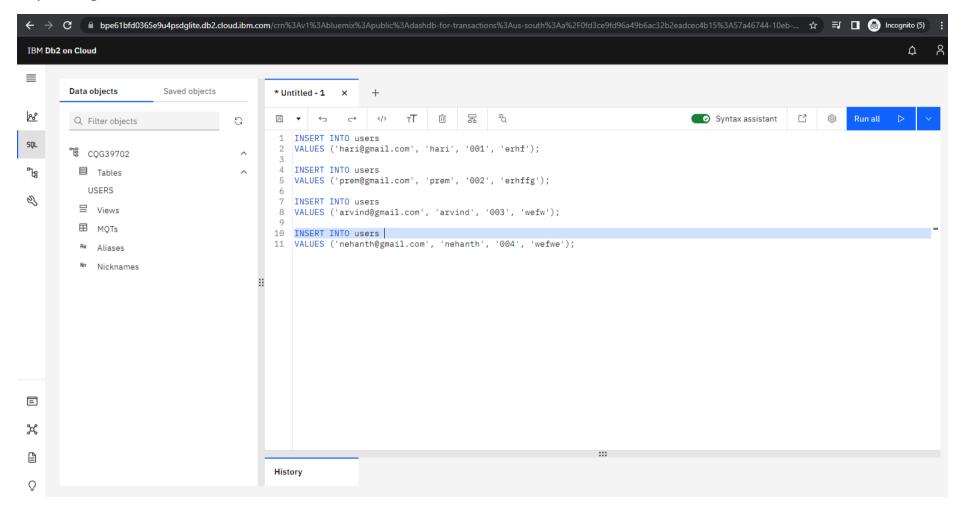
DATE	30 th September, 2022
TEAM ID	PNT2022TMID35555
PROJECT NAME	Inventory Management System for Retailers
MAXIMUM MARKS	2 Marks

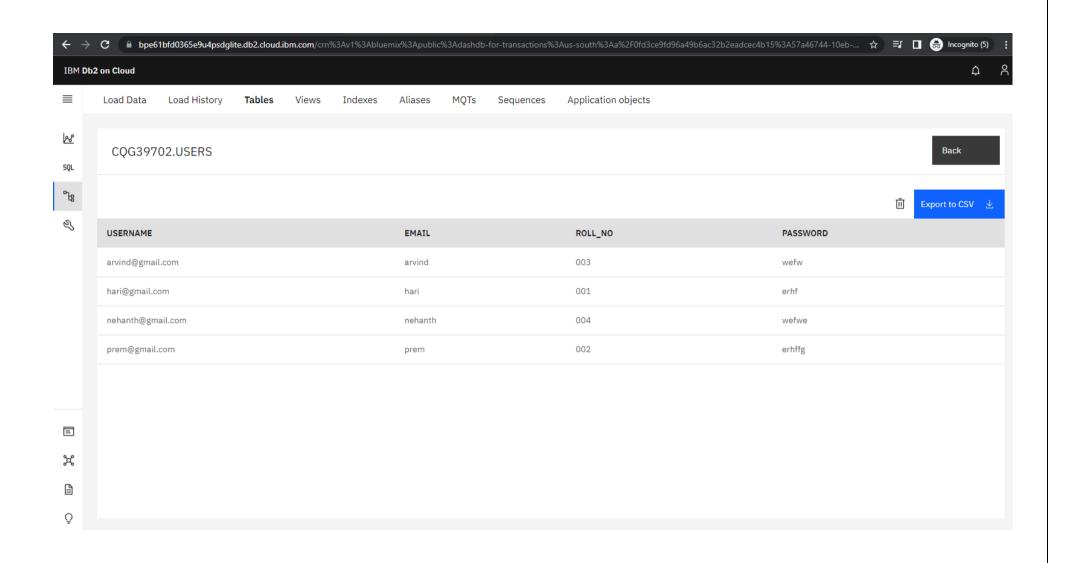
Question 1 Create a table in IBM cloud with username, email, password, roll number



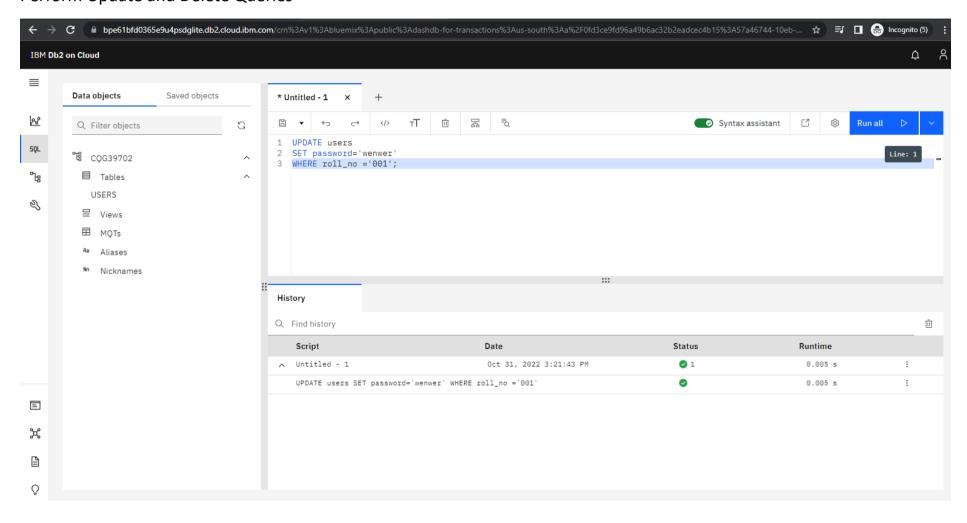


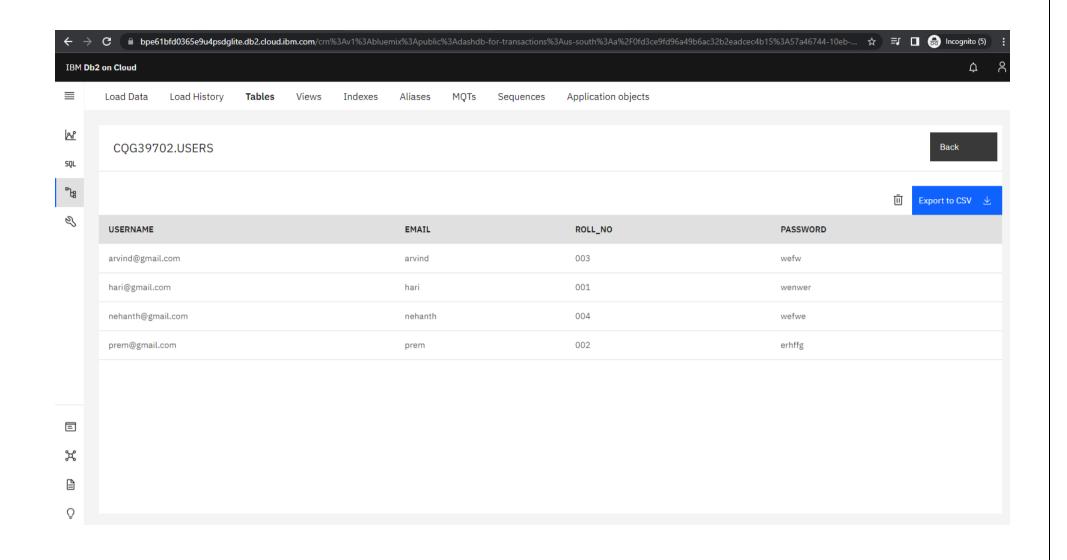
Populating the table

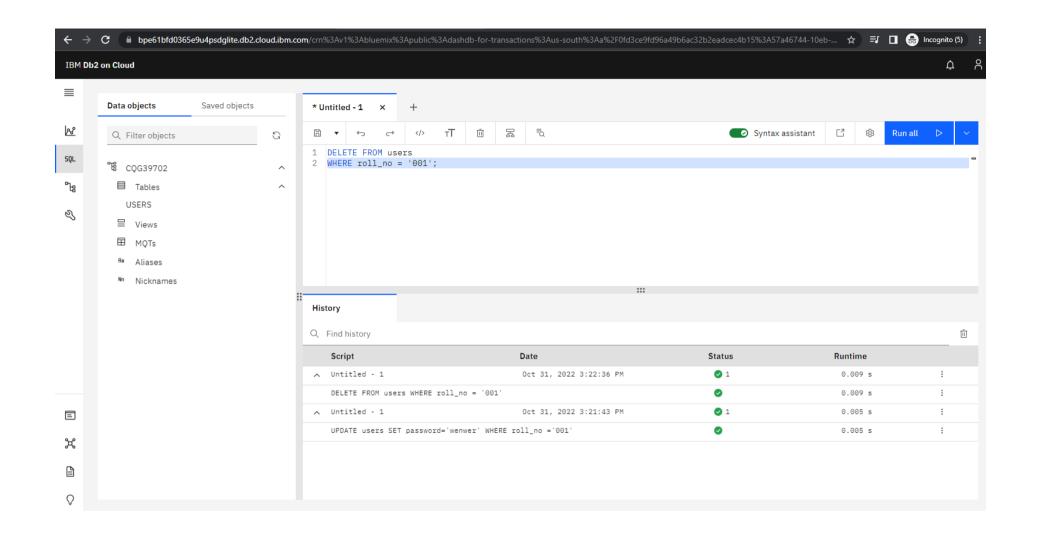




Question 2 Perform Update and Delete Queries







Question 3. Connect python code to db2

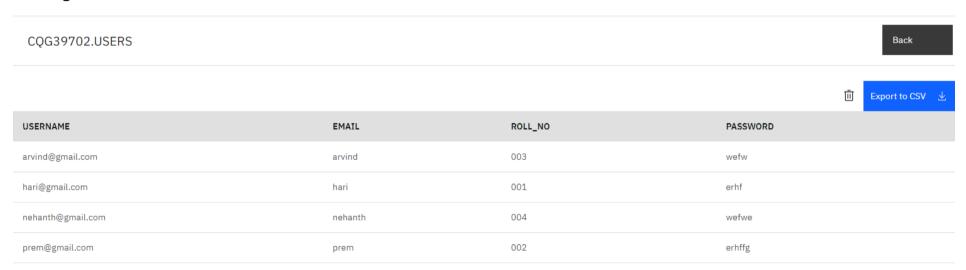
Code:

```
from flask import Flask
import ibm db
app = Flask( name )
try:
conn = ibm db.connect("DATABASE=bludb; HOSTNAME=b0aebb68-94fa-46ec-a1fc-
1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud; PORT=31249; SECURITY=SSL; SSLServerCer
tificate=DigiCertGlobalRootCA.crt;UID=cqg39702;PWD=hIRRyoYSNHJxjqQq", "", "")
except:
@app.route("/")
def dashboard():
    return "Hello there!"
if name == ' main ':
    app.run(debug=True)
```

Question 4.

Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate username and password. If the user is valid show the welcome page.

Existing database:



User.py

```
from flask import Flask, render template, request, redirect, url for, session, flash
import ibm db
app = Flask( name )
app.secret key = 'a'
try:
    conn = ibm db.connect("DATABASE=bludb; HOSTNAME=b0aebb68-94fa-46ec-a1fc-
1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;SECURITY=SSL;SSLServerCer
tificate=DigiCertGlobalRootCA.crt;UID=cqq39702;PWD=hIRRyoYSNHJxjqQq", "", "")
except:
    print("Unable to connect: ", ibm db.conn error())
@app.route("/")
def dash():
    return render template('register.html', msg=" ")
@app.route("/register", methods=['GET', 'POST'])
def register():
    error = None
    if request.method == 'POST':
```

```
username = request.form['username']
        email = request.form['email']
        roll number = request.form['rollnumber']
        password = request.form['password']
        sql = "SELECT * FROM user WHERE roll number=?"
        prep stmt = ibm db.prepare(conn, sql)
        ibm db.bind param(prep stmt, 1, roll number)
        ibm db.execute(prep stmt)
        account = ibm db.fetch assoc(prep stmt)
        print(account)
        if account:
            error = "Account already exists! Log in to continue !"
        else:
            insert sql = "INSERT INTO user values(?,?,?,?)"
            prep stmt = ibm db.prepare(conn, insert sql)
            ibm db.bind param(prep stmt, 1, email)
            ibm db.bind param(prep stmt, 2, username)
            ibm db.bind param(prep stmt, 3, roll number)
            ibm db.bind param(prep stmt, 4, password)
            ibm db.execute(prep stmt)
            flash(" Registration successfull. Log in to continue !")
    return render template('login.html', error=error)
@app.route('/login', methods=['GET', 'POST'])
```

```
def login():
    error = None
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        sql = "SELECT * FROM user WHERE username=? AND password=?"
        stmt = ibm db.prepare(conn, sql)
        ibm db.bind param(stmt, 1, username)
        ibm db.bind param(stmt, 2, password)
        ibm db.execute(stmt)
        account = ibm db.fetch assoc(stmt)
    if account:
        session['Loggedin'] = True
        session['id'] = account['USERNAME']
        session["username"] = account["USERNAME"]
        flash("Logged in successfully!")
        return redirect(url for("welcome page"))
    else:
        error = "Incorrect username / password"
        return render template('login.html', error=error)
@app.route('/welcome')
def welcome page():
```

```
return render_template("welcome.html", user=session['id'])

if __name__ == '__main__':
    app.run(debug=True)
```

register.html

login.html

```
{% with messages = get flashed messages() %}
   {% if messages %}
   {% for message in messages %}
   {{ message }} {% endfor %}
   {% endif %} {% endwith %}
   <div class="center"> <br /><br />
      <form action="/login" method="POST">
         <h1>Login</h1> <br /><br />
          Enter Username: 
         <input type="text" name="username" />
          Enter Password:
         <input type="submit" value="submit" />
      </form>
</html>
```

Index.html

```
<!DOCTYPE html>
<html lang="en">
```

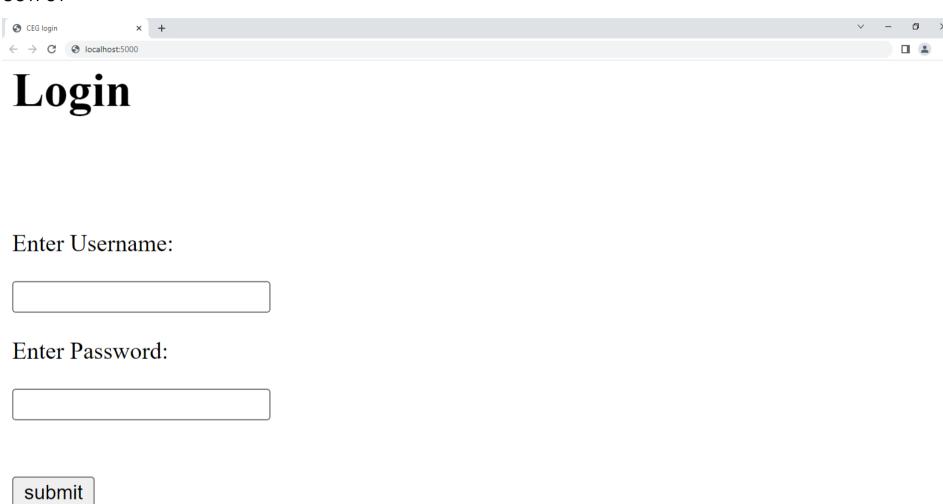
```
<meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/semantic-</pre>
ui@2.4.2/dist/semantic.min.css">
  <script src="https://cdn.jsdelivr.net/npm/semantic-ui@2.4.2/dist/semantic.min.js"></script>
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.0/jquery.min.js"></script>
  <script> function delete flash(flash) { $(flash).parent().remove() } </script>
</head>
  <div style="margin:13%;" class="ui placeholder segment">
    <div class="ui icon header">
      <i class="user icon"></i>
      Welcome back,
    </div>
    <a href="{{ url for('logout', usernameOrEmail=usernameOrEmail) }}">
      <div class="ui blue button">Log Out</div>
  </div>
 /bodv>
```

```
</html>
```

Style.css

```
body{
    color: black;
    margin: auto;
h2 {
    text-align: center;
input {
    padding: 7px;
```

OUTPUT





Student Registration Portal

Enter Email ID:	
Enter Username:	
Enter Password:	
Enter Roll number:	
submit	

